

**United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101**

Date: APR -4 2014

Subject: Transmittal of Sample Analysis Results for ASR #: 6410

Project ID: JG7CR01

Project Description: Big River Mine Tailings - Removal Action sampling

From: Michael F. Davis, Chief *MFDavis*
Chemical Analysis and Response Branch, Environmental Services Division

To: Jason Gunter
SUPR/SPEB

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

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Superfund

0001

Project Manager: Jason Gunter**Org:** SUPR/SPEB**Phone:** 913-551-7358**Project ID:** JG7CR01**Project Desc:** Big River Mine Tailings - Removal Action sampling**Location:** Park Hills**State:** Missouri**Program:** Superfund**Site Name:** BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP.
- RESIDENTIAL ACT/SOURCE CONTROL**Site ID:** 07CR **Site OU:** 01**GPRA PRC:** 303DC6**Purpose:** Site Cleanup Support

Removal Action support sampling.

Explanation of Codes, Units and Qualifiers used on this report**Sample QC Codes:** QC Codes identify the type of sample for quality control purpose.**Units:** Specific units in which results are reported.

___ = Field Sample

mg/kg = Milligrams per Kilogram

ug/L = Micrograms per Liter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank)= Values have been reviewed and found acceptable for use.

J = The identification of the analyte is acceptable; the reported value is an estimate.

U = The analyte was not detected at or above the reporting limit.

ASR Number: 6410

Sample Information Summary

04/04/2014

Project ID: JG7CR01

Project Desc: Big River Mine Tailings - Removal Action sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -		Solid	9232-C1-SF-CP		02/14/2014	14:20			03/03/2014
2 -		Solid	9235-C2-SF-CP		02/14/2014	15:15			03/03/2014
3 -		Solid	9147-C2-SF-CP		02/14/2014	16:20			03/03/2014
4 -		Solid	9149-C1-SF-CP		02/17/2014	09:43			03/03/2014
5 -		Solid	9149-C3-SF-CP		02/17/2014	09:49			03/03/2014
6 -		Solid	9150-C2-SF-CP		02/17/2014	10:07			03/03/2014
7 -		Solid	9238-C1-SF-CP		02/17/2014	10:42			03/03/2014
8 -		Solid	9240-C3-SF-CP		02/17/2014	11:26			03/03/2014
9 -		Solid	9242-Grdn-SF-CP		02/17/2014	12:18			03/03/2014
10 -		Solid	9245-DZ-SF-CP		02/17/2014	13:50			03/03/2014
11 -		Solid	9246-DW-SF-CP		02/17/2014	14:05			03/03/2014
12 -		Solid	9248-C3-SF-CP		02/20/2014	09:05			03/03/2014
13 -		Solid	9265-C3-SF-CP		02/20/2014	09:22			03/03/2014
14 -		Solid	9265-C5-SF-CP		02/20/2014	10:49			03/03/2014
15 -		Solid	9253-Grdn-SF-CP		02/20/2014	14:22			03/03/2014
16 -		Solid	9266-C5-SF-CP		02/20/2014	15:14			03/03/2014
17 -		Solid	9252-C1-SF-CP		02/20/2014	16:00			03/03/2014
18 -		Solid	9253-PA-SF-CP		02/20/2014	16:35			03/03/2014
19 -		Solid	9272-C3-SF-CP		02/23/2014	11:45			03/03/2014
20 -		Solid	9273-C4-SF-CP		02/23/2014	12:05			03/03/2014
21 -		Solid	9275-C1-SF-CP		02/23/2014	12:50			03/03/2014
22 -		Solid	9276-C1-SF-CP		02/23/2014	13:10			03/03/2014
23 -		Solid	9279-C3-SF-CP		02/23/2014	14:10			03/03/2014
24 -		Solid	9282-C3-SF-CP		02/24/2014	15:45			03/03/2014
25 -		Solid	9303-C2-SF-CP		02/24/2014	16:10			03/03/2014
26 -		Solid	9303-LS-SF-CP		02/24/2014	17:10			03/03/2014
27 -		Solid	9311-DW-SF-CP		02/25/2014	15:40			03/03/2014
28 -		Solid	9302-C1-SF-CP		02/25/2014	16:10			03/03/2014
29 -		Solid	9287-LS-SF-CP		02/26/2014	14:25			03/03/2014
30 -		Solid	9308-C3-SF-CP		02/26/2014	15:20			03/03/2014
31 -		Solid	9309-C1-SF-CP		02/26/2014	15:55			03/03/2014
101 -		Water	BRMT-9268, Sink - Unpurged		02/18/2014	15:17			03/03/2014
102 -		Water	BRMT-9268, Sink - Purged		02/18/2014	15:22			03/03/2014
103 -		Water	BRMT-9268, Hydrant - Unpurged		02/18/2014	15:11			03/03/2014
104 -		Water	BRMT-9268, Hydrant - Purged		02/18/2014	15:16			03/03/2014
105 -		Water	BRMT-9267, Sink - Unpurged		02/18/2014	13:55			03/03/2014
106 -		Water	BRMT-9267, Sink - Purged		02/18/2014	14:00			03/03/2014
107 -		Water	BRMT-9267, Hydrant - Unpurged		02/18/2014	14:05			03/03/2014
108 -		Water	BRMT-9267, Hydrant - Purged		02/18/2014	14:10			03/03/2014
109 -		Water	BRMT-9266, Sink - Unpurged		02/18/2014	12:00			03/03/2014
110 -		Water	BRMT-9266, Sink - Purged		02/18/2014	12:05			03/03/2014
111 -		Water	BRMT-9266, Spigot - Unpurged		02/18/2014	12:14			03/03/2014
112 -		Water	BRMT-9266, Spigot - Purged		02/18/2014	12:19			03/03/2014
113 -		Water	BRMT-9238, Sink - Unpurged		02/15/2014	10:12			03/03/2014

ASR Number: 6410**Sample Information Summary****04/04/2014****Project ID:** JG7CR01**Project Desc:** Big River Mine Tailings - Removal Action sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
114 - ___		Water	BRMT-9238, Sink - Purged		02/15/2014	10:17			03/03/2014
115 - ___		Water	BRMT-9238, Spigot - Unpurged		02/15/2014	10:24			03/03/2014
116 - ___		Water	BRMT-9238, Spigot - Purged		02/15/2014	10:29			03/03/2014
117 - ___		Water	BRMT-9269, Sink - Unpurged		02/19/2014	10:10			03/03/2014
118 - ___		Water	BRMT-9269, Sink - Purged		02/19/2014	10:15			03/03/2014
119 - ___		Water	BRMT-9269, Hydrant - Unpurged		02/19/2014	10:00			03/03/2014
120 - ___		Water	BRMT-9269, Hydrant - Purged		02/19/2014	10:05			03/03/2014
121 - ___		Water	BRMT-9270, Sink - Unpurged		02/14/2014	10:42			03/03/2014
122 - ___		Water	BRMT-9270, Sink - Purged		02/14/2014	10:47			03/03/2014
123 - ___		Water	BRMT-9270, Spigot - Unpurged		02/14/2014	10:55			03/03/2014
124 - ___		Water	BRMT-9270, Spigot - Purged		02/14/2014	11:00			03/03/2014
125 - ___		Water	BRMT-9271, Sink - Unpurged		02/19/2014	11:15			03/03/2014
126 - ___		Water	BRMT-9271, Sink - Purged		02/19/2014	11:20			03/03/2014
127 - ___		Water	BRMT-9271, Spigot - Unpurged		02/19/2014	11:25			03/03/2014
128 - ___		Water	BRMT-9271, Spigot - Purged		02/19/2014	11:30			03/03/2014
129 - ___		Water	BRMT-9272, Sink - Unpurged		02/19/2014	13:30			03/03/2014
130 - ___		Water	BRMT-9272, Sink - Purged		02/19/2014	13:35			03/03/2014
131 - ___		Water	BRMT-9273, Sink - Unpurged		02/19/2014	14:10			03/03/2014
132 - ___		Water	BRMT-9273, Sink - Purged		02/19/2014	14:15			03/03/2014
133 - ___		Water	BRMT-9273, Hydrant - Unpurged		02/19/2014	14:25			03/03/2014
134 - ___		Water	BRMT-9273, Hydrant - Purged		02/19/2014	14:30			03/03/2014
135 - ___		Water	BRMT-9285, Sink - Unpurged		02/21/2014	11:15			03/03/2014
136 - ___		Water	BRMT-9285, Sink - Purged		02/21/2014	11:20			03/03/2014
137 - ___		Water	BRMT-9285, Spigot - Unpurged		02/21/2014	11:05			03/03/2014
138 - ___		Water	BRMT-9285, Spigot - Purged		02/21/2014	11:10			03/03/2014
139 - ___		Water	BRMT-9286, Sink - Unpurged		02/21/2014	11:25			03/03/2014
140 - ___		Water	BRMT-9286, Sink - Purged		02/21/2014	11:30			03/03/2014
141 - ___		Water	BRMT-9282, Sink - Unpurged		02/21/2014	09:15			03/03/2014
142 - ___		Water	BRMT-9282, Sink - Purged		02/21/2014	09:20			03/03/2014
143 - ___		Water	BRMT-9282, Spigot - Unpurged		02/21/2014	09:30			03/03/2014
144 - ___		Water	BRMT-9282, Spigot - Purged		02/21/2014	09:35			03/03/2014
145 - ___		Water	BRMT-9283, Sink - Purged		02/21/2014	10:05			03/03/2014
146 - ___		Water	BRMT-9283, Sink - Unpurged		02/21/2014	10:00			03/03/2014
147 - ___		Water	BRMT-9284, Hydrant - Unpurged		02/21/2014	10:05			03/03/2014
148 - ___		Water	BRMT-9284, Hydrant - Purged		02/21/2014	10:10			03/03/2014
149 - ___		Water	BRMT-9299, Spigot - Unpurged		02/21/2014	14:00			03/03/2014
150 - ___		Water	BRMT-9299, Spigot - Purged		02/21/2014	14:05			03/03/2014
151 - ___		Water	BRMT-9301, Sink - Unpurged		02/22/2014	09:55			03/03/2014
152 - ___		Water	BRMT-9301, Sink - Purged		02/22/2014	10:00			03/03/2014
153 - ___		Water	BRMT-9301, Spigot - Unpurged		02/22/2014	10:10			03/03/2014
154 - ___		Water	BRMT-9301, Spigot - Purged		02/22/2014	10:15			03/03/2014
155 - ___		Water	BRMT-9302, Sink - Unpurged		02/22/2014	10:45			03/03/2014
156 - ___		Water	BRMT-9302, Sink - Purged		02/22/2014	10:50			03/03/2014
157 - ___		Water	BRMT-9302, Spigot - Unpurged		02/22/2014	11:02			03/03/2014

ASR Number: 6410**Sample Information Summary****04/04/2014****Project ID:** JG7CR01**Project Desc:** Big River Mine Tailings - Removal Action sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
158 -	___	Water	BRMT-9302, Spigot - Purged		02/22/2014	11:08			03/03/2014
159 -	___	Water	BRMT-9303, Sink - Unpurged		02/22/2014	12:20			03/03/2014
160 -	___	Water	BRMT-9303, Sink - Purged		02/22/2014	12:25			03/03/2014
161 -	___	Water	BRMT-9303, Spigot - Unpurged		02/22/2014	12:35			03/03/2014
162 -	___	Water	BRMT-9303, Spigot - Purged		02/22/2014	12:40			03/03/2014
163 -	___	Water	BRMT-9307, Sink - Unpurged		02/24/2014	10:05			03/03/2014
164 -	___	Water	BRMT-9307, Sink - Purged		02/24/2014	10:10			03/03/2014
165 -	___	Water	BRMT-9307, Spigot - Unpurged		02/24/2014	10:20			03/03/2014
166 -	___	Water	BRMT-9307, Spigot - Purged		02/24/2014	10:27			03/03/2014
167 -	___	Water	BRMT-9310, Spigot - Unpurged		02/24/2014	12:25			03/03/2014
168 -	___	Water	BRMT-9310, Spigot - Purged		02/24/2014	12:30			03/03/2014
169 -	___	Water	BRMT-9311, Sink - Unpurged		02/24/2014	13:30			03/03/2014
170 -	___	Water	BRMT-9311, Sink - Purged		02/24/2014	13:35			03/03/2014
171 -	___	Water	BRMT-9311, Spigot - Unpurged		02/24/2014	13:45			03/03/2014
172 -	___	Water	BRMT-9311, Spigot - Purged		02/24/2014	13:40			03/03/2014
173 -	___	Water	BRMT-9312, Sink - Unpurged		02/24/2014	14:25			03/03/2014
174 -	___	Water	BRMT-9312, Sink - Purged		02/24/2014	14:30			03/03/2014
175 -	___	Water	BRMT-9312, Spigot - Unpurged		02/24/2014	14:40			03/03/2014
176 -	___	Water	BRMT-9312, Spigot - Purged		02/24/2014	14:45			03/03/2014
177 -	___	Water	BRMT-9281, Hydrant - Purged		02/19/2014	14:50			03/03/2014

Analysis Comments About Results For This Analysis

1 Metals in Solids by ICP-AES**Lab:** Contract Lab Program (Out-Source)**Method:** CLP Statement of Work**Basis:** Dry

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
 8-__ 9-__ 10-__ 11-__ 12-__ 13-__ 14-__
 15-__ 16-__ 17-__ 18-__ 19-__ 20-__ 21-__
 22-__ 23-__ 24-__ 25-__ 26-__ 27-__ 28-__
 29-__ 30-__ 31-__

Comments:

Arsenic was J-coded in sample -27. Slight negative arsenic contamination was found in the calibration blanks. Only samples containing this analyte at a level greater than five times the contamination level of the blank are reported without being qualified. All samples that contained this analyte but at a level less than five times the contamination in the blank have the result J-coded.

Arsenic in samples -10, -25, -27, -28, -29, and -31 was J-coded. This analyte was found in the samples at or above the reporting limits and are an estimate (J-coded) due to negative recoveries of this analyte in the interference check samples (ICS) which was not present in the ICS solution but whose absolute value was greater than the method detection limit (MDL), therefore, a possibility of false negatives exists. The actual reporting limits may be higher than the reported values.

Arsenic, barium, cadmium, chromium, and zinc were J-coded in sample -21. Although the analytes in question have been positively identified in the sample, the quantitations are an estimate (J-coded) due to low recoveries of these analytes (As: 58%, Ba: 60%, Cd: 65%, Cr: 66%, and Zn: 28% vs 75-125%) in the laboratory matrix spike. The actual concentrations for these analytes may be higher than the reported values.

Cadmium in sample -21 was J-coded. Although the analyte in question has been positively identified in this sample, the quantitation is an estimate (J-coded) due to the serial dilution percent difference (Cd: 19%) being above the control limits (15%). The actual concentration for cadmium may be lower than the reported value.

1 Metals in Water by ICP/MS**Lab:** Contract Lab Program (Out-Source)**Method:** CLP Statement of Work

Samples: 101-__ 102-__ 103-__ 104-__ 105-__ 106-__ 107-__
 108-__ 109-__ 110-__ 111-__ 112-__ 113-__ 114-__
 115-__ 116-__ 117-__ 118-__ 119-__ 120-__ 121-__
 122-__ 123-__ 124-__ 125-__ 126-__ 127-__ 128-__
 129-__ 130-__ 131-__ 132-__ 133-__ 134-__ 135-__
 136-__ 137-__ 138-__ 139-__ 140-__ 141-__ 142-__
 143-__ 144-__ 145-__ 146-__ 147-__ 148-__ 149-__

Analysis Comments About Results For This Analysis

Samples: 150-__ 151-__ 152-__ 153-__ 154-__ 155-__ 156-__
 157-__ 158-__ 159-__ 160-__ 161-__ 162-__ 163-__
 164-__ 165-__ 166-__ 167-__ 168-__ 169-__ 170-__
 171-__ 172-__ 173-__ 174-__ 175-__ 176-__ 177-__

Comments:

Slight arsenic, barium, cadmium, chromium, lead, and zinc contamination were found in the preparation and/or calibration blanks. Only samples containing these analytes at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained these analytes but at a level less than ten times the contamination in the blank have the result U-coded indicating that the reporting limits have been raised to the levels found in the samples. Samples affected were: arsenic in -159 and -160, barium in -115, -116, -125 through -130, -133, -134, -137 through -140, -147 through -150, -159, and -160, cadmium in -158, chromium in -123 and -137, lead in -103, -104, -115, -129, -133, -139, -144, -146, -149, -153, -155 through -158, -167, and -175, and zinc in -105, -110, -113, -114, -117, -125, -126, -128, -132, -136, -145, -151, -152, -156, and -158 through -160.

Zinc in samples -121 and -141 and barium in sample -161 were J-coded. Although the analytes in question have been positively identified in these samples, the quantitations are an estimate (J-coded) due to the serial dilution percent differences (Zn: 14-24% and Ba: 11%) being above the control limits (10%). The actual concentrations for zinc and barium may be higher than the reported values.

ASR Number: 6410

RLAB Approved Sample Analysis Results

04/04/2014

Project ID: JG7CR01

Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Metals in Solids by ICP-AES					
Arsenic	mg/kg	8.2	5.3	7.8	9.3
Barium	mg/kg	271	189	131	443
Cadmium	mg/kg	2.2	1.4	1.5	2.5
Chromium	mg/kg	22.9	13.2	18.6	17.3
Lead	mg/kg	385	793	389	539
Zinc	mg/kg	145	103	122	259

ASR Number: 6410

RLAB Approved Sample Analysis Results

04/04/2014

Project ID: JG7CR01

Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Metals in Solids by ICP-AES					
Arsenic	mg/kg	8.6	7.9	5.1	7.0
Barium	mg/kg	394	154	120	190
Cadmium	mg/kg	2.6	5.2	1.9	2.6
Chromium	mg/kg	16.6	17.8	17.3	21.7
Lead	mg/kg	516	826	442	467
Zinc	mg/kg	217	376	138	278

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Metals in Solids by ICP-AES					
Arsenic	mg/kg	4.6	3.3 J	4.9	5.9
Barium	mg/kg	118	84.3	121	361
Cadmium	mg/kg	1.9	4.6	1.5	3.5
Chromium	mg/kg	12.3	11.6	13.8	14.8
Lead	mg/kg	251	713	297	579
Zinc	mg/kg	120	497	220	258

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Metals in Solids by ICP-AES					
Arsenic	mg/kg	6.3	5.9	6.0	4.6
Barium	mg/kg	301	117	258	78.8
Cadmium	mg/kg	1.7	1.5	2.6	1.5
Chromium	mg/kg	15.1	19.0	14.1	12.6
Lead	mg/kg	756	283	413	462
Zinc	mg/kg	142	82.6	196	121

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RLAB Approved Sample Analysis Results
Project Desc: Big River Mine Tailings - Removal Action sampling

04/04/2014

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 Metals in Solids by ICP-AES					
Arsenic	mg/kg	7.5	8.2	4.9	5.7
Barium	mg/kg	211	235	127	105
Cadmium	mg/kg	1.3	1.5	4.8	13.8
Chromium	mg/kg	21.2	18.4	15.1	13.5
Lead	mg/kg	295	185	826	2080
Zinc	mg/kg	109	144	253	702

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RLAB Approved Sample Analysis Results
Project Desc: Big River Mine Tailings - Removal Action sampling

04/04/2014

Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
1 Metals in Solids by ICP-AES					
Arsenic	mg/kg	12.3 J	10.3	10.9	11.1
Barium	mg/kg	345 J	422	185	729
Cadmium	mg/kg	2.8 J	4.2	10.2	4.6
Chromium	mg/kg	28.2 J	24.1	14.9	16.6
Lead	mg/kg	610	1640	1040	1210
Zinc	mg/kg	328 J	707	603	287

ASR Number: 6410

RLAB Approved Sample Analysis Results

04/04/2014

Project ID: JG7CR01

Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1 Metals in Solids by ICP-AES					
Arsenic	mg/kg	7.7 J	9.4	1.0 J	6.3 J
Barium	mg/kg	132	176	39.5	128
Cadmium	mg/kg	3.0	1.4	2.8	2.3
Chromium	mg/kg	16.7	18.7	5.8	18.6
Lead	mg/kg	542	289	465	1140
Zinc	mg/kg	205	127	181	163

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RLAB Approved Sample Analysis Results
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04/04/2014

Analysis/ Analyte	Units	29-__	30-__	31-__	101-__
1 Metals in Solids by ICP-AES					
Arsenic	mg/kg	6.0 J	11.8	4.6 J	
Barium	mg/kg	126	132	269	
Cadmium	mg/kg	5.2	10.8	2.8	
Chromium	mg/kg	16.9	18.6	14.8	
Lead	mg/kg	883	1360	501	
Zinc	mg/kg	344	597	221	
1 Metals in Water by ICP/MS					
Arsenic	ug/L				1.0 U
Barium	ug/L				54.8
Cadmium	ug/L				1.0 U
Chromium	ug/L				2.0 U
Lead	ug/L				1.0 U
Zinc	ug/L				7.1

ASR Number: 6410

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04/04/2014

Project ID: JG7CR01

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Analysis/ Analyte	Units	102-__	103-__	104-__	105-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	51.1	41.4	49.3	10.0 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.1 U	1.8 U	1.0 U
Zinc	ug/L	5.6	106	46.0	2.3 U

ASR Number: 6410

RLAB Approved Sample Analysis Results

04/04/2014

Project ID: JG7CR01

Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	106-__	107-__	108-__	109-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	10.0 U	69.7	61.5	45.2
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Zinc	ug/L	2.0 U	93.6	35.5	10.1

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results
Project Desc: Big River Mine Tailings - Removal Action sampling

04/04/2014

Analysis/ Analyte	Units	110-__	111-__	112-__	113-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	42.7	45.3	44.3	10.0 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Zinc	ug/L	3.5 U	17.9	17.5	3.6 U

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results
Project Desc: Big River Mine Tailings - Removal Action sampling

04/04/2014

Analysis/ Analyte	Units	114-__	115-__	116-__	117-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	10.0 U	16.5 U	15.2 U	74.5
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Zinc	ug/L	4.6 U	58.2	53.3	2.9 U

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results
Project Desc: Big River Mine Tailings - Removal Action sampling

04/04/2014

Analysis/ Analyte	Units	118-__	119-__	120-__	121-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	60.0	60.0	57.8	45.3
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Zinc	ug/L	2.0 U	30.9	16.3	25.7 J

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	122-__	123-__	124-__	125-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	45.2	42.8	41.9	27.4 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.5 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	51.9	1.0 U	1.0 U
Zinc	ug/L	15.5	17400	637	9.9 U

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	126-__	127-__	128-__	129-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	25.9 U	25.8 U	25.6 U	25.7 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	5.8	1.0 U	1.1 U
Zinc	ug/L	9.1 U	411	13.0 U	142

ASR Number: 6410

RLAB Approved Sample Analysis Results

04/04/2014

Project ID: JG7CR01

Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	130-__	131-__	132-__	133-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	25.7 U	10.0 U	10.0 U	25.8 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	4.2	1.0 U	1.1 U
Zinc	ug/L	42.6	78.2	9.3 U	90.4

ASR Number: 6410

RLAB Approved Sample Analysis Results

04/04/2014

Project ID: JG7CR01

Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	134-__	135-__	136-__	137-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	29.4 U	10.0 U	10.0 U	29.2 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.3 U
Lead	ug/L	13.2	1.0 U	1.0 U	14.9
Zinc	ug/L	39.3	46.5	7.4 U	1760

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results
Project Desc: Big River Mine Tailings - Removal Action sampling

04/04/2014

Analysis/ Analyte	Units	138-__	139-__	140-__	141-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	27.0 U	30.1 U	29.9 U	92.9
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.3 U	1.0 U	1.0 U
Zinc	ug/L	80.1	294	54.0	18.8 J

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	142-__	143-__	144-__	145-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	98.8	92.3	87.8	10.0 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	108	3.1 U	1.0 U
Zinc	ug/L	16.7	194	28.5	7.2 U

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	146-__	147-__	148-__	149-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	10.0 U	20.4 U	21.2 U	18.4 U
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.8 U	1.0 U	1.0 U	3.0 U
Zinc	ug/L	154	34.6	28.2	136

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	150-__	151-__	152-__	153-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	18.2 U	10.0 U	10.0 U	57.6
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.0 U	1.0 U	4.9 U
Zinc	ug/L	21.7	5.8 U	3.3 U	809

ASR Number: 6410

RLAB Approved Sample Analysis Results

04/04/2014

Project ID: JG7CR01

Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	154-__	155-__	156-__	157-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	59.9	94.7	93.0	93.0
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.6 U	1.0 U	3.2 U
Zinc	ug/L	39.1	16.7	6.9 U	38.2

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	158-__	159-__	160-__	161-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	2.0 U	1.7 U	6.5
Barium	ug/L	96.5	28.3 U	27.5 U	28.5 J
Cadmium	ug/L	1.9 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	2.8 U	1.0 U	1.0 U	2.9
Zinc	ug/L	14.4 U	8.8 U	7.4 U	21.8

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	162-__	163-__	164-__	165-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	3.4	1.0 U	1.0 U	1.0 U
Barium	ug/L	27.0	44.3	41.4	39.6
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.0 U	1.0 U	3.1
Zinc	ug/L	12.6	28.1	9.9	28.6

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results **04/04/2014**
Project Desc: Big River Mine Tailings - Removal Action sampling

Analysis/ Analyte	Units	166-__	167-__	168-__	169-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	40.7	38.7	40.9	26.7
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.4 U	1.0 U	1.0 U
Zinc	ug/L	13.6	45.2	28.1	13.7

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results
Project Desc: Big River Mine Tailings - Removal Action sampling

04/04/2014

Analysis/ Analyte	Units	170-__	171-__	172-__	173-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	27.1	29.2	27.5	35.0
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	18.5	1.0 U	2.4
Zinc	ug/L	10.0	764	24.7	26.5

ASR Number: 6410
Project ID: JG7CR01

RLAB Approved Sample Analysis Results
Project Desc: Big River Mine Tailings - Removal Action sampling

04/04/2014

Analysis/ Analyte	Units	174-__	175-__	176-__	177-__
1 Metals in Water by ICP/MS					
Arsenic	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Barium	ug/L	33.8	35.3	32.6	27.7
Cadmium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Lead	ug/L	1.0 U	1.9 U	1.0 U	1.0 U
Zinc	ug/L	5.0	41.1	5.3	26.5

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

14 FEB 14 thru
26 FEB 14

ACTIVITY LEADER(Print) <u>Jason Gunter</u>	NAME OF SURVEY OR ACTIVITY <u>Removal Action at the</u> <u>BRMT-DU 1 Site</u>	DATE OF COLLECTION DAY MONTH YEAR 14 FEB 14	SHEET 1 of 5
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SAMPLE NUMBER	TYPE OF CONTAINERS					SAMPLED MEDIA					RECEIVING LABORATORY REMARKS. OTHER INFORMATION (condition of samples upon receipt other sample numbers etc.)	
	4 HND 3 CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	dust	other		
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER											
6410 - 101	1						X					
- 102	1						X					
- 103	1						X					
- 104	1						X					
- 105	1						X					
- 106	1						X					
- 107	1						X					
- 108	1						X					
- 109	1						X					
- 110	1						X					
- 111	1						X					
- 112	1						X					
- 113	1						X					
- 114	1						X					
- 115	1						X					
- 116	1						X					
- 117	1						X					
- 118	1						X					
- 119	1						X					
- 120	1						X					
- 121	1						X					
- 122	1						X					
V - 123	1						X					
6410 - 124	1						X					

DESCRIPTION OF SHIPMENT <u>102</u> PIECE(S) CONSISTING OF <u>2</u> BOX(ES) <u>4</u> ICE CHEST(S); OTHER _____	MODE OF SHIPMENT _____ COMMERCIAL CARRIER _____ _____ COURIER _____ <input checked="" type="checkbox"/> SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____
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PERSONNEL CUSTODY RECORD			
RELINQUISHED BY (SAMPLER) <u>Daniel L. May</u>	DATE <u>2-28-14</u>	TIME <u>1400</u>	RECEIVED BY <u>R. Wiggam</u>
<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED
REASON FOR CHANGE OF CUSTODY <u>Rec'd at lab</u>			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
REASON FOR CHANGE OF CUSTODY			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
REASON FOR CHANGE OF CUSTODY			

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

14 FEB 14 thru
26 FEB 14

ACTIVITY LEADER(Print) <u>Jason Guter</u>	NAME OF SURVEY OR ACTIVITY <u>Removal at the BRANT-DUL Site</u>	DATE OF COLLECTION DAY MONTH YEAR 26 FEB 14	SHEET 2 of 5
CONTENTS OF SHIPMENT			

SAMPLE NUMBER	TYPE OF CONTAINERS					SAMPLED MEDIA					RECEIVING LABORATORY REMARKS-OTHER INFORMATION (condition of samples upon receipt other sample numbers etc.)
	HAZ CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	dust	other	
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
6410-125	1					X					
-126	1					X					
-127	1					X					
-128	1					X					
-129	1					X					
-130	1					X					
-131	1					X					
-132	1					X					
-133	1					X					
-134	1					X					
-135	1					X					
-136	1					X					
-137	1					X					
-138	1					X					
-139	1					X					
-140	1					X					
-141	1					X					
-142	1					X					
-143	1					X					
-144	1					X					
-145	1					X					
-146	1					X					
✓ -147	1					X					
6410-148	1					X					

DESCRIPTION OF SHIPMENT <u>108</u> PIECE(S) CONSISTING OF <u>2</u> BOX(ES) <u>4</u> ICE CHEST(S); OTHER _____	MODE OF SHIPMENT _____ COMMERCIAL CARRIER: _____ _____ COURIER <input checked="" type="checkbox"/> SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____
---	---

PERSONNEL CUSTODY RECORD					
RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<u>David L. Gray</u>	<u>2-28-14</u>	<u>1400</u>	<u>R. Wiggans</u>	<u>Rec'd at lab</u>	
<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

14 FEB 14 thru
28 FEB 14

ACTIVITY LEADER(Print) <i>Jason Gunter</i>	NAME OF SURVEY OR ACTIVITY <i>Removal at the BRMT-</i>	DATE OF COLLECTION DAY MONTH YEAR	SHEET 3 of 5
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OU1 Site

SAMPLE NUMBER	TYPE OF CONTAINERS					SAMPLED MEDIA					RECEIVING LABORATORY REMARKS: OTHER INFORMATION (condition of samples upon receipt other sample numbers etc.)
	1 HNB3 CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	dust	other	
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
6410-149	1					X					
-150	1					X					
-151	1					X					
-152	1					X					
-153	1					X					
-154	1					X					
-155	1					X					
-156	1					X					
-157	1					X					
-158	1					X					
-159	1					X					
-160	1					X					
-161	1					X					
-162	1					X					
-163	1					X					
-164	1					X					
-165	1					X					
-166	1					X					
-167	1					X					
-168	1					X					
-169	1					X					
V -170	1					X					
-171	1					X					
6410-172	1					X					

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
103 PIECE(S) CONSISTING OF <u>2</u> BOX(ES) <u>4</u> ICE CHEST(S); OTHER _____	_____ COMMERCIAL CARRIER _____ _____ COURIER _____ <input checked="" type="checkbox"/> SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____

PERSONNEL CUSTODY RECORD			
RELINQUISHED BY (SAMPLER) <i>David L. May</i>	DATE <i>2-28-14</i>	TIME <i>1400</i>	RECEIVED BY <i>RD Wiggam</i>
<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED
REASON FOR CHANGE OF CUSTODY	<i>Rec'd at lab</i>		
RELINQUISHED BY	DATE	TIME	RECEIVED BY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
RELINQUISHED BY	DATE	TIME	RECEIVED BY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED
RELINQUISHED BY	DATE	TIME	RECEIVED BY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

14 FEB 14 thru
26 FEB 14

ACTIVITY LEADER(Print) Jason Gunter	NAME OF SURVEY OR ACTIVITY Removal at the BRMT-001	DATE OF COLLECTION DAY MONTH YEAR	SHEET 4 of 5
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CONTENTS OF SHIPMENT		TYPE OF CONTAINERS					SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
SAMPLE NUMBER		± HNO₃		8 ea soil		VOA SET	water	soil	sediment	dust	other	
		CUBITAINER	BOTTLE	BOTTLE	BOTTLE	(2 VIALS EA)						
NUMBERS OF CONTAINERS PER SAMPLE NUMBER												
6410-173	1						X					
-174	1						X					
-175	1						X					
-176	1						X					
-177	1						X					
-1				1				X				
-2				1				X				
-3				1				X				
-4				1				X				
-5				1				X				
-6				1				X				
-7				1				X				
-8				1				X				
-9				1				X				
-10				1				X				
-11				1				X				
-12				1				X				
-13				1				X				
-14				1				X				
-15				1				X				
-16				1				X				
-17				1				X				
V -18				1				X				
6410-19				1				X				

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
108 PIECE(S) CONSISTING OF 2 BOX(ES) 4 ICE CHEST(S). OTHER	_____ COMMERCIAL CARRIER _____ COURIER <input checked="" type="checkbox"/> SAMPLER CONVEYED
(SHIPPING DOCUMENT NUMBER)	

PERSONNEL CUSTODY RECORD					
RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<i>Mark L. May</i>	2-28-14	1400	<i>D. Wiggins</i>	Rec'd at Lab	
<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY	
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		

14 FEB 14 thru
(26 FEB 14

7-EPA-9262(Revised 5/85)

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 1 QC Code: ___ Matrix: Solid Tag ID: 6410-1-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9232-C1-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: / / :

Longitude: _____

End: 2/14/14 14:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 358 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 2 QC Code: ___ Matrix: Solid Tag ID: 6410-2-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9235-C2-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 1/1/14

____:____

Longitude: _____

End: 2/14/14

15:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 335 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 3 QC Code: ____ Matrix: Solid Tag ID: 6410-3-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9147-C2-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2____/____/____ 16:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 404 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 4 QC Code: ____ Matrix: Solid Tag ID: 6410-4-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9149-C1-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: ____/____/____

____:____

Longitude: _____

End: 2/17/14

09:43

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 533 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 5 QC Code: ___ Matrix: Solid Tag ID: 6410-5-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9149-C3-SF-CP

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: ___

Sample Collection: Start: ___/___/___

Longitude: ___

End: 2/17/14 09:49

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 502 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 6 QC Code: ____ Matrix: Solid Tag ID: 6410-6-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9150-C2-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ **Sample Collection: Start:** / / :
Longitude: _____ **End:** 2/17/14 10:07

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 787 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 7 QC Code: ____ Matrix: Solid Tag ID: 6410-7-____

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9238-C1-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____ ____:____

Longitude: _____

End: 1/17/14 /c: 42

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 426 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 8 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 6410-8-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9240-C3-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ____ ____ ____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: ____ ____ ____ **End:** 2/17/14 11:26

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: .505 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 9 QC Code: ____ Matrix: Solid Tag ID: 6410-9-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9242 - Grdn - SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ **Sample Collection: Start:** ____/____/____ ____:____

Longitude: _____ **End:** 2/17/14 12:18

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 245 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 10 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 6410-10-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 7245-DZ-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: ____/____/____ ____:____

Longitude: _____

End: 2/17/14 14:05
13:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 409 ppm

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. -	Site ID:	07CR
	RESIDENTIAL ACT/SOURCE CONTROL	Site OU:	01

External Sample Number: _____

Laboratory Analyses:

Sample Comments:

XRF #1535

Average XRF-Pb: 409 ppm

1 of 1

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 12 **QC Code:** __ **Matrix:** Solid **Tag ID:** 6410-12-__

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: 9248-C3-5F-CA

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ **Sample Collection: Start:** 1/1/ _____:

Longitude: _____ **End:** 2/20/14 08:05

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 627 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 13 QC Code: ____ Matrix: Solid Tag ID: 6410-13-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9265-C3-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: ____/____/____ ____:____

Longitude: _____

End: 2/26/14 07:22

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 837 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 14 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 6410-14-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9265-C5-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ____-____-____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: ____-____-____ **End:** 2/20/14 10:49

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 345 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 15 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 6410-15-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9253-GRDN-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ____-____-____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: ____-____-____ **End:** 2/20/14 19:22

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 356 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 16 QC Code: __ Matrix: Solid Tag ID: 6410-16-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9266-C5-SF-CP

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 1/1/14 13:14

Longitude: _____

End: 2/26/14 13:14

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 504 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 17 QC Code: ___ Matrix: Solid Tag ID: 6410-17-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 92.52-C1-SF-CP

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: / / :

Longitude: _____ End: 2/20/14 16:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 319 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 18 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 6410-18-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9253-PA-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: _____ **End:** 2/20/14 16:55

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 215 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 19 QC Code: ____ Matrix: Solid Tag ID: 6410-19-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9272-C3-SFCA

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: / /

 :

Longitude: _____

End: 2/23/14

11:45

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 851 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 20 QC Code: __ Matrix: Solid Tag ID: 6410-20-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9273-C4-SF-CP

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: __/__/__

Longitude: _____

End: 2/23/14 12:05

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 2008 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 21 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 6410-21-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
 City: Park Hills **State:** Missouri
 Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
 RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9275-C1-SFACP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: _____ **End:** 2/23/14 12:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 518 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 22 QC Code: __ Matrix: Solid Tag ID: 6410-22-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9276-C1-SF-CP

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: ____ Sample Collection: Start: ____
Longitude: ____ End: 2/23/14 13:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 1104 ppm

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 23 **QC Code:** ____ **Matrix:** Solid **Tag ID:** 6410-23-____

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: 9279-C35F-CP

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ **Sample Collection: Start:** / / : :

Longitude: _____ **End:** 21/33/14 18:4:

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 798 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 24 QC Code: ____ Matrix: Solid Tag ID: 6410-24-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9282-C325F-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____
Latitude: _____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: _____ **End:** 2/24/14 15:45

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 994 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 25 QC Code: ____ Matrix: Solid Tag ID: 6410-25-____

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9303-C2-SF-CR

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____ ____:____

Longitude: _____

End: 2/29/14 16:16

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 542 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 26 QC Code: ____ Matrix: Solid Tag ID: 6410-26-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9304-LS-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: ____/____/____ ____:____

Longitude: _____

End: 2/24/14 17:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 217 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 27 QC Code: ____ Matrix: Solid Tag ID: 6410-27-__

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9311-DW-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ____

Sample Collection: Start: ____/____/____

____:____

Longitude: ____

End: 2/25/14

15:40

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 411 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 28 **QC Code:** __ **Matrix:** Solid **Tag ID:** 6410-28-__

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9302-C1-SFCA

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ____ **Sample Collection: Start:** ____ **:** ____
Longitude: ____ **End:** 2/22/14 16:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 1069 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 29 QC Code: Matrix: Solid Tag ID: 6410-29-

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: ~~9287-LS-SF-D6~~ 9287-LS-SF-CP

External Sample Number:

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: Sample Collection: Start: 1/1/14

Longitude: End: 2/26/14 14:25

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 789 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 30 QC Code: ____ Matrix: Solid Tag ID: 6410-30-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 9308-C3-SF-CP

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 1 1
Longitude: _____ **End:** 2 12 14 15:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 1220 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 31 QC Code: ____ Matrix: Solid Tag ID: 6410-31-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: 7309-C 1-SF-CA

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____
Latitude: _____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: _____ **End:** 2/26/14 15:55

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	180 Days	1 Metals in Solids by ICP-AES

Sample Comments:

(N/A)

XRF #1535

Average XRF-Pb: 402 ppm

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 101 QC Code: ___ Matrix: Water Tag ID: 6410-101-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9268 Sink - unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____ Sample Collection: Start: ____/____/____ :____
Longitude: _____ End: 2/18/14 15:17

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 103 **QC Code:** **Matrix:** Water **Tag ID:** 6410-103-

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9268 Hydrant - Unpurged

External Sample Number:

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: **Sample Collection: Start:** / /
Longitude: **End:** 2/18/14 15:11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HN03 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 104 QC Code: ___ Matrix: Water Tag ID: 6410-104-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9268 Hydrant - purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/18/14 15:16

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 105 QC Code: ___ Matrix: Water Tag ID: 6410-105-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc:

BRMT-9267 Sink - upurged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/18/14

13:55

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 106 QC Code: ___ Matrix: Water Tag ID: 6410-106-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9267 Sink-purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/18/14 14:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 107 QC Code: ___ Matrix: Water Tag ID: 6410-107-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9267 Hydrant - Unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/18/14 14:05

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 108 QC Code: ___ Matrix: Water Tag ID: 6410-108-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9267 Hydrant-Purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: 1/1/ _____
Longitude: _____ End: 2/18/14 14:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 109 **QC Code:** ____ **Matrix:** Water **Tag ID:** 6410-109-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9266 Sink-Unparged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: _____

Longitude: _____

End: 2/18/14

12:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 110 QC Code: __ Matrix: Water Tag ID: 6410-110-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9266 Sink - Purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/18/14 12:05

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 111 **QC Code:** ____ **Matrix:** Water **Tag ID:** 6410-111-____

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: BRMT-9266 Spigot-Unpurged

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____

Latitude: _____ **Sample Collection: Start:** _____

Longitude: _____ **End:** 2/18/14 12:14

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO ₃ to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Kansas City, KS

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. -
RESIDENTIAL ACT/SOURCE CONTROL **Site ID:** 07CR **Site OU:** 01

~~14: 711~~
1219

1 Metals in Water by ICP/MS

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 113 **QC Code:** __ **Matrix:** Water **Tag ID:** 6410-113-__

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: BRMT- 9238 Sink - unpurged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ Sample Collection: Start: 11/11/11 _____
Longitude: _____ End: 21/5/14 10:12

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Kansas City, KS

1 of 1

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 115 QC Code: __ Matrix: Water Tag ID: 6410-115-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9238 Spigot - unpurged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: _____

Longitude: _____

End: 2/15/14 1024

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Kansas City, KS

1 of 1

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 117 QC Code: ___ Matrix: Water Tag ID: 6410-117-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc:

BRMT-9269 Sink - unpurged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

____:____

Longitude: _____

End: 2/19/14 10:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HN03 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 118 QC Code: ___ Matrix: Water Tag ID: 6410-118-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc:

BRMT-9269 Sink-purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Date

Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

____:____

Longitude: _____

End: 2/19/14

10:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 119 QC Code: ___ Matrix: Water Tag ID: 6410-119-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc:

BRMT-9269

Hydant - unpurged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High)

Date

Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

____:____

Longitude: _____

End:

2/19/14

10:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 121 **QC Code:** _____ **Matrix:** Water **Tag ID:** 6410-121-_____

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: BRMT- 9270 sink asperged

External Sample Number:

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ **Sample Collection: Start:** ____/____/____ ____:____

Longitude: _____ **End:** 21/14/14 10:42

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 122 QC Code: __ Matrix: Water Tag ID: 6410-122-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9270 sink purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/14/14 10:47

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 124 QC Code: ___ Matrix: Water Tag ID: 6410-124-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9270 Spigot Parged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: ____/____/____ :____
Longitude: _____ End: 2/14/14 11:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 125 QC Code: __ Matrix: Water Tag ID: 6410-125-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9271 Sink Closed

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: __/__/_____
Longitude: _____ End: 2/19/14 11:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 126 QC Code: __ Matrix: Water Tag ID: 6410-126-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 9271 Sink Parged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: ____/____/____ :____
Longitude: _____ End: 2/19/14 16:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 127 QC Code: __ Matrix: Water Tag ID: 6410-127-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BENT 9271 Spot Unpaired

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 1/1/14 11:25

Longitude: _____

End: 2/19/14 11:25

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 128 **QC Code:** ____ **Matrix:** Water **Tag ID:** 6410-128-____

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: BLMT 9271 Spigat Ridge

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ Sample Collection: Start: ____/____/____ :____
Longitude: _____ End: 2/18/14 11:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 129 **QC Code:** ____ **Matrix:** Water **Tag ID:** 6410-129-____

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: BRMT 9272 Sink Closed

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____ Sample Collection: Start: ____/____/____ :____
Longitude: _____ End: 2/19/14 13:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO ₃ to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 130 QC Code: ___ Matrix: Water Tag ID: 6410-130-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 9272 Sink Parged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: / / :

Longitude: _____

End: 2/18/14 13:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 131 QC Code: ___ Matrix: Water Tag ID: 6410-131-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 9272 Sink Unsegregated

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/19/14 14:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 132 QC Code: ___ Matrix: Water Tag ID: 6410-132-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 9273 Sink Aged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/19/14 14:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 133 QC Code: _____ Matrix: Water Tag ID: 6410-133-_____

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 9273 Hydant Unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 1/1/14 _____

Longitude: _____

End: 2/19/14 14:25

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 134 QC Code: ___ Matrix: Water Tag ID: 6410-134-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: ARMT 9273 Hydrant Auged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: _____

Longitude: _____

End: 2/19/14 14:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 135 QC Code: ___ Matrix: Water Tag ID: 6410-135-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 928-5 Sink Unauged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 1/1/14 _____

Longitude: _____

End: 2/11/14 11:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 136 QC Code: __ Matrix: Water Tag ID: 6410-136-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 928.5 Sink Aged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: 1/1/ _____

Longitude: _____ End: 2/21/14 11:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 137 QC Code: __ Matrix: Water Tag ID: 6410-137-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 7285 Spigot Unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 1/1/14 _____

Longitude: _____

End: 2/21/14 11:05

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 138 QC Code: ___ Matrix: Water Tag ID: 6410-138-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 9285 Spigot Parged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 1/1/14 11:10

Longitude: _____

End: 2/11/14 11:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 139 QC Code: __ Matrix: Water Tag ID: 6410-139-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: ARMT 9286 Sink Unpaved

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 1/1 _____
Longitude: _____ End: 2/20/14 11:25

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 140 QC Code: __ Matrix: Water Tag ID: 6410-140-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT 9286 Sink Parged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 1/1/14 _____

Longitude: _____

End: 2/21/14 11:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 142 QC Code: __ Matrix: Water Tag ID: 6410-142-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9282 Sink Purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/21/14 09:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 143 QC Code: __ Matrix: Water Tag ID: 6410-143-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT - 9232 Spigot Unpurgal

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____
Latitude: _____ Sample Collection: Start: ____/____/____ :____
Longitude: _____ End: 2/21/14 04:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 145 QC Code: ___ Matrix: Water Tag ID: 6410-145-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: SRMT-4283 Sink Purgard

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: ___/___/___ :___
Longitude: _____ End: 2/21/14 10:05

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 146 QC Code: __ Matrix: Water Tag ID: 6410-146-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT - 9283 Sink Unpurged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: ____ Sample Collection: Start: ____/____/____ :____
Longitude: ____ End: 2/21/14 10:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 147 QC Code: __ Matrix: Water Tag ID: 6410-147-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9284 Hydrant Unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____ Sample Collection: Start: ____/____/____ :____
Longitude: _____ End: 2/21/14 10:05

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 148 QC Code: __ Matrix: Water Tag ID: 6410-148-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: RRMT-9284 Hydrant - Parged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/21/14 10:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 6410 **Sample Number:** 149 **QC Code:** ____ **Matrix:** Water **Tag ID:** 6410-149-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
 City: Park Hills **State:** Missouri
 Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
 RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9299 Spigot Unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ ____ ____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: ____ ____ ____ **End:** 2/21/14 14:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 151 QC Code: __ Matrix: Water Tag ID: 6410-151-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9301 Sink Unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

____:____

Longitude: _____

End: 2/22/14

09:55

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 152 QC Code: __ Matrix: Water Tag ID: 6410-152-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9301 Sink Poured

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____ :____

Longitude: _____

End: 2/22/14 10:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 153 **QC Code:** ____ **Matrix:** Water **Tag ID:** 6410-153-____

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. -	Site ID:	07CR
	RESIDENTIAL ACT/SOURCE CONTROL	Site OU:	01

Location Desc: B.P.MT-9301 Spigot Unpurged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: Sample Collection: Start: / / :
Longitude: End: 2/22/14 10:11

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HN03 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 155 QC Code: __ Matrix: Water Tag ID: 6410-155-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9302 Sink Unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

____:____

Longitude: _____

End: 2/22/14

10:45

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

ASR Number: 6410 **Sample Number:** 156 **QC Code:** ____ **Matrix:** Water **Tag ID:** 6410-156-____

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: BRMT-9302 Sink Purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: **Sample Collection: Start:** / / :
Longitude: **End:** 2/22/14 10:50

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO ₃ to pH<2	180 Days	1 Metals in Water by ICP/MS

(N/A)

1 of 1

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 158 QC Code: __ Matrix: Water Tag ID: 6410-158-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9302 Spigot Purgel

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

____:____

Longitude: _____

End: 2/22/14

11:08

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 159 QC Code: __ Matrix: Water Tag ID: 6410-159-__

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9303 Sink Unpurged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: ____/____/____ :____

Longitude: _____ End: 2/22/14 12:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 160 QC Code: ___ Matrix: Water Tag ID: 6410-160-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9303 Sink Purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: ___/___/___ :___
Longitude: _____ End: 2/22/14 12:25

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 161 QC Code: __ Matrix: Water Tag ID: 6410-161-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9303 spigot - unpurged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/22/14 12:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 165 QC Code: __ Matrix: Water Tag ID: 6410-165-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9307 spigot un-purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/24/14 10:20

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 6410 Sample Number: 166 QC Code: ___ Matrix: Water Tag ID: 6410-166-___

Project ID: JG7CR01 Project Manager: Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills State: Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9307 spigot Parged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: ___/___/___ :___
Longitude: _____ End: 2/24/14 10:27

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 167 **QC Code:** ____ **Matrix:** Water **Tag ID:** 6410-167-____

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: BRMT-9310 spigot un-purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: **Sample Collection: Start:** / / :
Longitude: **End:** 2/24/14 12:25

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 168 QC Code: _____ Matrix: Water Tag ID: 6410-168-_____

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9310 spigot purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/24/14 12:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 169 QC Code: _____ Matrix: Water Tag ID: 6410-169-_____

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9311 sink un-purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/24/14 13:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 170 QC Code: __ Matrix: Water Tag ID: 6410-170-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9311 sink purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: ____

Sample Collection: Start: __/__/__

Longitude: ____

End: 2/24/14 13:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 171 QC Code: ____ Matrix: Water Tag ID: 6410-171-____

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9311 spigot un-purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/24/14 13:45

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 172 QC Code: __ Matrix: Water Tag ID: 6410-172-__

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9311 spigot purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: __/__/__

Longitude: _____

End: 2/24/14 13:40

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

**US EPA Region 7
Kansas City, KS**

ASR Number: 6410 **Sample Number:** 173 **QC Code:** __ **Matrix:** Water **Tag ID:** 6410-173-__

Project ID:	JG7CR01	Project Manager:	Jason Gunter
Project Desc:	Big River Mine Tailings - Removal Action sampling		
City:	Park Hills	State:	Missouri
Program:	Superfund		
Site Name:	BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - RESIDENTIAL ACT/SOURCE CONTROL	Site ID:	07CR
		Site OU:	01

Location Desc: BRMT-9312 sink un-purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** _____ **Time(24 hr)** _____

Latitude: _____ **Sample Collection: Start:** ____/____/____ _____:____

Longitude: _____ **End:** 2/24/14 14:25

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO ₃ to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 174 QC Code: ___ Matrix: Water Tag ID: 6410-174-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9312 sink purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/24/14 14:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 175 QC Code: ___ Matrix: Water Tag ID: 6410-175-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9312 spigot un-purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/24/14 14:40

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 176 QC Code: ____ Matrix: Water Tag ID: 6410-176-____

Project ID: JG7CR01 **Project Manager:** Jason Gunter
Project Desc: Big River Mine Tailings - Removal Action sampling
City: Park Hills **State:** Missouri
Program: Superfund
Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - **Site ID:** 07CR **Site OU:** 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9312 Spigot-purged

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** ____/____/____ ____:____
Longitude: _____ **End:** 2/24/14 14:45

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 6410 Sample Number: 177 QC Code: ___ Matrix: Water Tag ID: 6410-177-___

Project ID: JG7CR01

Project Manager: Jason Gunter

Project Desc: Big River Mine Tailings - Removal Action sampling

City: Park Hills

State: Missouri

Program: Superfund

Site Name: BIG RIVER MINE TAILINGS/ST. JOE MINERALS CORP. - Site ID: 07CR Site OU: 01
RESIDENTIAL ACT/SOURCE CONTROL

Location Desc: BRMT-9281 hydrant purged

External Sample Number: _____

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: ____/____/____

Longitude: _____

End: 2/19/14 14:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter Cubitainer	HNO3 to pH<2	180 Days	1 Metals in Water by ICP/MS

Sample Comments:

(N/A)

Sample Collected By: DG/TT